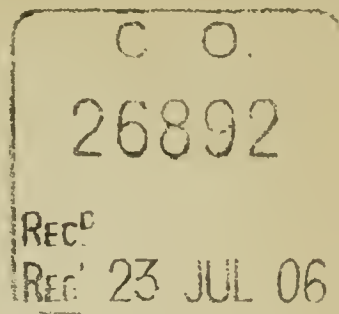


*Federated Malay States.*



THE MEDICAL REPORT  
FOR THE  
STATE OF PERAK,  
1905.

RETURN OF THE STATISTICS OF POPULATION OF PERAK  
FOR THE YEAR 1905.

					Europeans and Eurasians.	Chinese.	Malays.	Tamils.	Others.
No. of inhabitants in 1904	...	...	...	...	2,523	196,674	151,985	33,314	866
„ Births during the year 1905	...	...	...	...	44	1,408	5,970	722	149
„ Deaths „ 1905	...	...	...	...	25	7,089	3,223	1,891	272
„ Immigrants „ 1905	...	...	...	...	700	27,783	7,504	6,323	...
„ Emigrants „ 1905	...	...	...	...	581	18,715	6,743	5,017	...
„ Inhabitants in 1905	...	...	...	...	2,661	200,061	155,493	33,451	743
Increase, or	...	...	...	...	138	3,387	3,508	137	...
Decrease	...	...	...	...	...	...	...	...	123

METEOROLOGICAL RETURN OF TAIPING FOR THE YEAR 1905.

				Temperature.				Rainfall.		Winds.		
				Solar Maximum.	Minimum on Grass.	Shade Maximum.	Shade Minimum.	Range.	Mean.	Amount in Inches.	Degree of Humidity.	General Direction.
January	...	...	151	65	91.5	68	23.5	78.95	11.27	78	No record.	No record.
February	...	...	153	68	92	69	23	79.03	6.78	78		
March	...	...	153	69	94	70	24	80.42	20.44	78		
April	...	...	154	70	92	72	20	80.19	19.13	83		
May	...	...	149	70	92	72	20	79.90	14.69	84		
June	...	...	155	69	94	71	23	80.89	6.82	80		
July	...	...	152	70	93	70	23	80.68	9.02	77		
August	...	...	153	69	94.5	71	23.5	80.70	8.31	77		
September	...	...	150	66	93	68	25	79.24	7.84	79		
October	...	...	156	71	93	71	22	78.95	17.10	82		
November	...	...	154	71	91	71	20	78.92	20.70	84		
December	...	...	154	69	91	69	22	78.51	16.38	85		
Means ...			152	68.9	92.5	70.1	22.4	79.6	158.48 Total	80		

RETURN OF DISEASES AND DEATHS IN 1905 AT THE FOLLOWING INSTITUTIONS:--

FOURTEEN DISTRICT HOSPITALS, AT TAIPING, KUALA KANGSAR, BATU GAJAH, GOPENG, IPOH, KAMPAR, TELOK ANSON, TAPAH, PARIT BUNTAR, BAGAN SERAI, SELAMA, LENGGONG, TANJONG MALIM AND GRIT; TWO GAOL HOSPITALS, AT TAIPING AND BATU GAJAH; ONE LUNATIC ASYLUM, AT TAIPING; TWO LEPER ASYLUMS, AT PULAU JEREJAK AND PULAU PANGKOR LAUT.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
GENERAL DISEASES.					
Small-pox ... ..	1	18	3	19	1
Chicken-pox ... ..	...	15	1	15	2
Measles ... ..	...	16	...	16	
Typhus ... ..					
Dengue ... ..	...	2	...	2	
Influenza ... ..	...	1	...	1	
Plague ... ..					
Mumps ... ..	1	18	...	19	
Diphtheria ... ..					
Febricula ... ..	...	4	...	4	
Enteric Fever ... ..	1	24	12	25	
Cholera ... ..	...	1	1	1	
Dysentery ... ..	89	2,942	816	3,031	137
Yellow Fever ... ..					
Beri-beri ... ..	303	3,031	707	3,334	360
Malarial Fever—					
(a) Intermittent—					
Quotidian ... ..	14	793	17	807	46
Tertian ... ..	...	21	1	21	
Quartan ... ..					
Irregular ... ..	9	40	3	49	
Type undiagnosed ... ..	93	4,248	123	4,341	86
(b) Remittent ... ..	7	182	61	189	7
(c) Pernicious R. ... ..	...	35	27	35	
Phagedæna—					
(a) Sloughing ... ..	7	59	19	66	11
(b) Hospital gangrene ... ..					
Erysipelas ... ..	1	35	7	36	
Pyæmia ... ..	2	7	4	9	
Carried forward ...	528	11,492	1,802	12,020	650

\* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.



Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	528	11,492	1,802	12,020	650
GENERAL DISEASES---(cont.)					
Septicæmia ... ..	...	1	1	1	
Tetanus ... ..	...	1	1	1	
Tubercle ... ..	2	36	11	38	1
Leprosy—					
(a) Tubercular ... ..	152	194	56	346	183
(b) Anæsthetic ... ..					
Yaws ... ..	...	13	...	13	2
Syphilis—					
(a) Primary ... ..	8	409	2	417	28
(b) Secondary ... ..	105	1,601	62	1,706	116
(c) Inherited ... ..	...	4	1	4	
Gonorrhœa ... ..	9	404	1	413	26
Hydrophobia ... ..					
Scurvy ... ..					
Alcoholism ... ..	2	8	2	10	
Delirium Tremens ... ..					
Rheumatic Fever ... ..					
Rheumatism ... ..	7	130	2	137	6
Gout ... ..					
New Growths, non-malignant ... ..	3	22	2	25	
Do. malignant ... ..	1	36	16	37	4
Rickets ... ..	...	1	...	1	
Anæmia ... ..	38	644	90	682	30
Myxœdema ... ..					
Diabetes mellitus ... ..	...	1	...	1	
Do. insipidus ... ..					
Debility ... ..	13	580	64	593	36
Other Diseases ... ..	...	44	17	44	
<i>Carried forward</i> ...	868	15,621	2,130	16,489	1,082

\* *i.e.*, the year previous to that for which the Return is made.

† “Total cases treated” will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year’s Return.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	868	15,621	2,130	16,489	1,082
LOCAL DISEASES.					
NERVOUS SYSTEM.					
Sub-Section 1—					
Neuritis ...	3	72	6	75	2
Meningitis ...	3	4	3	7	
Myelitis ...	1	4	1	5	1
Hydrocephalus ...					
Encephalitis ...		1	1	1	
Abscess of Brain ...					
Congestion of Brain ...					
Sub-Section 2—					
Apoplexy ...	1	2	2	3	
Paralysis ...	6	41	7	47	6
Bed-sore ...		1	1	1	
Chorea ...		2		2	
Epilepsy ...	1	27	2	28	2
Neuralgia ...		28		28	1
Hysteria ...		1		1	
Sub-Section 3—					
Idiocy ...	4	4	2	8	2
Mania ...	28	57	13	85	40
Melancholia ...	33	33	11	66	45
Dementia ...	17	32	6	49	18
Delusional Insanity ...	14	47	8	61	38
Other Diseases of the System ...	15	104	18	119	13
EYE.					
Conjunctiva—					
Conjunctivitis ...	11	166	2	177	7
Cornea—					
Keratitis ...	2	15	1	17	
Ulceration ...	4	120	2	124	9
Opacity ...	1	18	1	19	2
<i>Carried forward</i> ...	1,012	16,400	2,217	17,412	1,268

\* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,012	16,400	2,217	17,412	1,268
LOCAL DISEASES—(cont.)					
EYE—(cont.)					
Schlerotic—					
Staphyloma... ..	...	5	...	5	
Iris—					
Iritis ... ..	2	26	...	28	4
Glaucoma ... ..	...	1	...	1	
Hypopyon ... ..	...				
Lens—					
Cataract ... ..	2	12	...	14	1
Eyelids—					
Entropion ... ..	1	4	...	5	
Other Eye Diseases ... ..	3	71	2	74	7
EAR.					
Inflammation ... ..	...	11	1	11	
Other Ear Diseases ... ..	2	9	...	11	1
NOSE.					
Inflammation ... ..	...				
Other Nose Diseases ... ..	...	5	...	5	1
CIRCULATORY SYSTEM.					
Membranes—					
Pericarditis... ..	...	1	1	1	
Endocarditis ... ..	...				
Valvular Diseases ... ..	7	98	45	105	1
Muscular Substance—					
Hypertrophy ... ..	...				
Dilatation ... ..	...	1	1	1	
Other Diseases of the System ... ..	1	27	9	28	4
RESPIRATORY SYSTEM.					
Larynx—					
Laryngitis ... ..	...	6	2	6	
<i>Carried forward</i> ...	1,030	16,677	2,278	17,707	1,287

\* *i.e.*, the year previous to that for which the Return is made.  
† “Total cases treated” will, of course, include those remaining in Hospital at the end of the previous year.  
‡ The figures in this column to be carried on to the next year’s Return.



Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,030	16,677	2,278	17,707	1,287
LOCAL DISEASES—( <i>cont.</i> )					
RESPIRATORY SYSTEM—( <i>cont.</i> )					
Bronchi—					
Bronchitis ... ..	11	444	13	455	12
Asthma ... ..	1	107	7	108	2
Lung—					
Congestion ... ..	...	1	1	1	
Hæmoptysis ... ..	1	16	1	17	1
Pneumonia ... ..	6	207	100	213	2
Gangrene ... ..	...	3	2	3	1
Phthisis ... ..	31	828	422	859	39
Emphysema ... ..					
Pleura—					
Pleurisy ... ..	2	51	11	53	
Empyema ... ..	...	7	5	7	1
Other Diseases of the System ... ..	1	7	2	8	
DIGESTIVE SYSTEM.					
Mouth—					
Stomatitis ... ..	...	18	2	18	
Dental Periostium—					
Gum-boil ... ..	1	5	...	6	
Fauces—					
Tonsillitis ... ..	...	9	...	9	1
Stomach—					
Gastritis ... ..	...	18	...	18	
Dyspepsia ... ..	1	127	2	128	4
Intestines—					
Enteritis ... ..	...	5	3	5	
Sprue ... ..	...	8	3	8	
Hernia ... ..	...	19	...	19	
Constipation ... ..	...	146	...	146	1
Diarrhœa ... ..	35	1,397	349	1,432	59
<i>Carried forward</i> ...	1,120	20,100	3,201	21,220	1,410

\* *i.e.*, the year previous to that for which the Return is made.

† “Total cases treated” will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year’s Return.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,120	20,100	3,201	21,220	1,410
LOCAL DISEASES—( <i>cont.</i> )					
DIGESTIVE SYSTEM—( <i>cont.</i> )					
Rectum and Anus—					
Hemorrhoids ... ..	1	32	2	33	2
Liver—					
Hepatitis ... ..	...	10	1	10	...
Abscess Liver ... ..	...	5	5	5	...
Cirrhosis ... ..	2	28	13	30	5
Congestion Liver ... ..	...	...	...	...	...
Jaundice ... ..	2	37	18	39	3
Peritoneum—					
Peritonitis ... ..	1	18	15	19	1
Ascites ... ..	14	119	57	133	6
Other Diseases of the System ... ..	4	116	7	120	4
LYMPHATIC SYSTEM.					
Spleen—					
Splenitis ... ..	1	65	1	66	3
Bubo ... ..	11	197	1	208	10
Lymphangitis ... ..	...	10	...	10	1
Elephantiasis ... ..	...	5	...	5	...
Other Diseases of the System ... ..	2	18	...	20	1
URINARY SYSTEM.					
Kidney—					
Acute Nephritis ... ..	3	47	10	50	...
Bright's Disease ... ..	12	214	69	226	13
Hæmaturia ... ..	...	6	...	6	...
Chyluria ... ..	...	...	...	...	...
Bladder—					
Cystitis ... ..	...	10	...	10	1
Calculus ... ..	1	2	...	3	...
Other Diseases of the System ... ..	1	15	1	16	...
<i>Carried forward</i> ...	1,175	21,054	3,401	22,229	1,460

\* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.



Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,175	21,054	3,401	22,229	1,460
LOCAL DISEASES—(cont.)					
GENERATIVE SYSTEM.					
Urethra—					
Stricture ... ..		27	1	27	1
Prepuce—					
Phimosis ... ..		35	...	35	1
Paraphimosis ... ..		20	...	20	1
Penis—					
Soft Chancre ... ..	9	189	...	198	8
Scrotum—					
Sloughing Scrotum ... ..	1	12	4	13	
Tunica Vaginalis—					
Hydrocele ... ..	1	16	...	17	1
Testicle—					
Orchitis ... ..	1	47	...	48	4
Epididymitis ... ..	...	5	...	5	1
Other Diseases (male) ... ..	1	24	2	25	
Uterus—					
Metritis ... ..	...	5	...	5	
Uterine Displacements ... ..	...	1	...	1	
Amenorrhœa ... ..	...				
Dysmenorrhœa ... ..	...	2	...	2	
Menorrhagia ... ..	1	4	...	5	1
Leucorrhœa ... ..	...	2	...	2	
Other Diseases (female) ... ..	3	67	4	70	5
ORGANS OF LOCOMOTION.					
Bones—					
Ostitis ... ..					
Periostitis ... ..	1	16	...	17	
Caries ... ..	...	7	...	7	
Necrosis ... ..	...	17	2	17	
Joints—					
Synovitis ... ..	7	64	1	71	7
Ankylosis ... ..	...	3	...	3	
<i>Carried forward</i> ...	1,200	21,617	3,415	22,817	1,490

\* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,200	21,617	3,415	22,817	1,490
LOCAL DISEASES—(cont.)					
ORGANS OF LOCOMOTION—(cont.)					
Spine—					
Caries Spine ... ..	...	1	1	1	
Curvature Spine ... ..	...	3	1	3	
Muscles—					
Myalgia ... ..	1	15	...	16	1
Other Diseases ... ..	6	37	1	43	1
CONNECTIVE TISSUE.					
Cellulitis ... ..	2	47	4	49	4
Abscess ... ..	29	523	19	552	22
Gangrene ... ..	2	13	2	15	2
SKIN.					
Eczema ... ..	14	337	5	351	10
Psoriasis ... ..	...	1	...	1	...
Herpes... ..	...	12	...	12	
Do. Zoster... ..	...	19	...	19	
Ulcer ... ..	204	2,885	61	3,089	203
Boil ... ..	2	75	1	77	2
Carbuncle ... ..	2	42	...	44	6
Onychia ... ..	...	12	...	12	
Whitlow ... ..	...	1	...	1	
Other Diseases ... ..	...	27	2	27	1
GENERAL INJURIES.					
Burns and Scalds ... ..	...	11	2	11	1
Sunstroke ... ..	...				
Multiple Injury ... ..	...	6	1	6	
Starvation ... ..	...	5	5	5	
Shock ... ..	...				
LOCAL INJURIES.					
Burns and Scalds ... ..	3	61	11	64	4
Wounds ... ..	40	946	18	986	35
<i>Carried forward</i> ...	1,505	26,696	3,549	28,201	1,787

\* *i.e.*, the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.

Diseases.	* Remaining in Hospital at end of 1904.	Yearly Total.		† Total Cases Treated.	‡ Remaining in Hospital at end of 1905.
		Admis- sions.	Deaths.		
<i>Brought forward</i> ...	1,505	26,696	3,549	28,201	1,787
LOCAL INJURIES—(cont.)					
Sprains ... ..	1	59	1	60	
Dislocations ... ..	...	16	...	16	
Fractures, simple ... ..	7	95	7	102	7
Do. compound... ..	4	38	11	42	2
Other Injuries ... ..	6	178	9	184	7
SURGICAL OPERATIONS.					
Amputation, leg ... ..	1	4	3	5	
Do. hand ... ..	...	1	1	1	
Do. arm ... ..	...	2	...	2	1
Herniotomy ... ..	...	1	1	1	
Spleeniotomy ... ..	...	1	1	1	
Other Operations ... ..	1	28	2	29	7
MALFORMATIONS ... ..	...	1	...	1	
POISONS.					
Mercury ... ..	1	11	2	12	
Alcohol ... ..	...	7	1	7	
Opium... ..	...	13	5	13	
Other Poisons... ..	1	5	...	6	
Poisoned Wounds ... ..	1	50	2	51	2
PARASITES.					
Distomum Sinense ... ..	...				
Tœnia Solium... ..	...	1	...	1	
Ascaris Lumbricoides ... ..	1	68	1	69	3
Anchylostomum Duodenale ... ..	2	116	22	118	7
Oxyuris Vermicularis ... ..	...				
Filaria Medinensis ... ..	...	7	1	7	
Acarus Scabiei ... ..	4	144	...	148	
Tinea Circinata ... ..	...	26	...	26	1
Other Parasites ... ..	...	13	...	13	...
UNDER OBSERVATION ... ..	20	90	1	110	6
TOTAL ... ..	1,555	27,671	3,620	29,226	1,830

\* i.e., the year previous to that for which the Return is made.

† "Total cases treated" will, of course, include those remaining in Hospital at the end of the previous year.

‡ The figures in this column to be carried on to the next year's Return.





FEDERATED MALAY STATES.

STATE OF PERAK.

THE PERAK MEDICAL REPORT FOR THE YEAR 1905.

STATISTICS OF POPULATION.

1. The population estimated for 1905 is 392,409. Compared with the previous year's figures this represents an increase of 7,047.
2. Births : a total of 8,293, being 1,150 more than in 1904.

Year.					Europeans and Eurasians.	Chinese.	Malays.	Tamils.	Others.
1904	...	...	...	...	74	1,210	5,151	602	106
1905	...	...	...	...	44	1,408	5,970	722	149
1905	{ Increase				...	198	819	120	43
	{ Decrease				30	...	...	...	...

The above table indicates that the number of births during the year has increased amongst all except Europeans and Eurasians. The birth-rate per thousand is 20.87 against 18.53 during 1904.

3. Deaths amount to 12,500, an increase of 587 compared with 1904 records. The death-rate per thousand for the whole State is 31.85 against 30.91 in the preceding twelve months. In the Straits Settlements the rate of mortality for the year 1904 was 39 per mille.

COMPARATIVE TABLE OF DEATHS.

Year.					Europeans and Eurasians.	Chinese.	Malays.	Tamils.	Others.
1904	...	...	...	...	15	7,514	3,030	1,163	191
1905	...	...	...	...	25	7,089	3,223	1,891	272
1905	{ Increase				10	...	193	728	81
	{ Decrease				...	425	...	...	...

A decrease in number of deaths is recorded only amongst the Chinese, in the case of other races there is an increase.

4. COMPARATIVE TABLE OF BIRTHS AND DEATHS, 1905.

—					Europeans and Eurasians.	Chinese.	Malays.	Tamils.	Others.
Births	...	...	...	...	44	1,408	5,970	722	149
Deaths	...	...	...	...	25	7,089	3,223	1,891	272

There was a higher number of births than deaths amongst Europeans and Eurasians and Malays only.

DISTRICT HOSPITALS.

INDOOR RETURNS.

5. The number remaining in the district hospitals at the end of 1904 was 1,263. Admissions during 1905 amounted to 25,949. The total treated was 27,212 against 22,884 the year before—an increase of 4,328.
6. Absconded from hospital, 476.

7. Deaths: a total of 3,497—a decrease of 40. Seven hundred and seventy-nine of the deaths occurred within 48 hours of admission.

STATEMENT OF DEATHS INCLUSIVE OF ALL FATAL CASES.

Hospital.	1904.	1905.	Increase.	Decrease.
Taiping ... ..	502	591	89	
Kuala Kangsar ... ..	123	149	26	
Batu Gajah ... ..	769	503	...	266
Gopeng... ..	338	341	3	
Ipoh ... ..	691	547	...	144
Kampar ... ..	305	357	52	
Telok Anson ... ..	124	98	...	26
Tapah ... ..	380	327	...	53
Parit Buntar ... ..	83	112	29	
Bagan Serai ... ..	188	418	230	
Selama ... ..	7	12	5	
Lenggong ... ..	13	8	...	5
Tanjong Malim ... ..	14	34	20	
Grit ... ..				
Total ...	3,537	3,497	...	40

STATEMENT OF DEATHS WITHIN 48 HOURS OF ADMISSION.

Hospital.	1904.	1905.	Increase.	Decrease.
Taiping ... ..	99	106	7	
Kuala Kangsar ... ..	39	40	1	
Batu Gajah ... ..	116	112	...	4
Gopeng ... ..	74	72	...	2
Ipoh ... ..	214	142	...	72
Kampar ... ..	125	137	12	
Telok Anson ... ..	24	14	...	10
Tapah ... ..	75	57	...	18
Parit Buntar ... ..	15	22	7	
Bagan Serai ... ..	26	62	36	
Selama ... ..	2	2		
Lenggong ... ..	4	1	...	3
Tanjong Malim ... ..	2	12	10	
Grit ... ..				
Total ...	815	779	...	36

PERCENTAGE OF DEATHS INCLUSIVE OF ALL FATAL CASES.

Hospital.	1904.	1905.	Increase.	Decrease.
Taiping ... ..	18.58	16.63	...	1.95
Kuala Kangsar ... ..	8.36	10.42	2.06	
Batu Gajah ... ..	21.42	13.69	...	7.73
Gopeng... ..	15.85	17.15	1.30	
Ipoh ... ..	19.66	13.72	...	5.94
Kampar ... ..	15.77	14.30	...	1.47
Telok Anson ... ..	18.10	9.41	...	8.69
Tapah ... ..	17.96	15.06	...	2.90
Parit Buntar ... ..	6.93	6.59	...	.34
Bagan Serai ... ..	6.02	9.03	3.01	
Selama ... ..	10.29	17.64	7.35	
Lenggong ... ..	7.73	6.29	...	1.44
Tanjong Malim ... ..	7.48	9.74	2.26	
Grit ... ..				
Total ...	15.45	12.85	...	2.60



PERCENTAGE OF DEATHS EXCLUSIVE OF THOSE OCCURRING WITHIN 48 HOURS  
OF ADMISSION.

Hospital.	1904.	1905.	Increase.	Decrease.
Taiping ... ..	15.48	14.06	...	1.42
Kuala Kangsar ... ..	5.86	7.62	1.76	
Batu Gajah ... ..	18.78	10.97	...	7.81
Gopeng ... ..	12.82	14.03	1.21	
Ipoh ... ..	14.45	10.54	...	3.91
Kampar ... ..	9.95	9.32	...	.63
Telok Anson ... ..	15.12	8.17	...	6.95
Tapah ... ..	14.95	12.77	...	2.18
Parit Buntar ... ..	5.84	5.36	...	.48
Bagan Serai ... ..	5.23	7.79	2.56	
Selama ... ..	7.57	15.15	7.58	
Lenggong ... ..	5.48	5.51	.03	
Tanjong Malim ... ..	6.48	6.52	.04	
Grit ... ..				
Total ...	12.33	10.28	...	2.05

The rate of mortality for the 14 district hospitals, inclusive of all fatal cases, is 12.85 per cent. against 15.45 per cent. the year before. A reduction of 2.60 per cent.

8. DAILY AVERAGE OF SICK.

Hospital.	1904.	1905.	Increase.	Decrease.
Taiping ... ..	164.55	242.27	77.72	
Kuala Kangsar ... ..	66.37	71.22	4.85	
Batu Gajah ... ..	192.45	185.06	...	7.39
Gopeng ... ..	166.20	125.28	...	40.92
Ipoh ... ..	237.25	235.80	...	1.45
Kampar ... ..	63.16	69.28	6.12	
Telok Anson ... ..	44.54	63.53	18.99	
Tapah ... ..	125.43	103.91	...	21.52
Parit Buntar ... ..	70.70	85.15	14.45	
Bagan Serai ... ..	164.56	217.04	52.48	
Selama ... ..	5.66	4.50	...	1.16
Lenggong ... ..	5.96	4.05	...	1.91
Tanjong Malim ... ..	7.73	8.29	.56	
Grit ... ..				
Total ...	1,314.56	1,415.38	100.82	

The increase in daily average of patients at Taiping and Bagan Serai was due to large and unforeseen admission of sick coolies from the Krian Irrigation Works. The coolies received from India for work of construction were badly selected. They were, taken as a body, of poor physique and unsuited to the heavy work of canal construction in water-logged soil. Their habits were filthy, and difficulty was experienced in inducing them to observe the common rules of sanitation. The result was that a considerable number of them became the subjects of disease. The hospital accommodation in the Krian district was taxed and arrangements were made to transfer some to Larut and Kuala Kangsar by rail.

REMARKS ON PARTICULAR DISEASES.

9. SMALL-POX.—Twenty-four cases were reported, of which four terminated fatally.

TYPHOID FEVER.—Twenty-five cases, with twelve deaths.

CHOLERA.—Only one case.

DYSENTERY.—Total treated 3,031, with 816 deaths—26.92 per cent. against 1,853 cases and 614 deaths the year before. The rate of mortality is, however, less by 6.21 per cent.

BERI-BERI.—Three thousand three hundred and thirty-four cases, with 707 deaths—21.20 per cent. compared with 4,414 total treated and 1,143 deaths, with a percentage of 25.89, in 1904. The numbers treated and the deaths and death-rate under this disease show a satisfactory reduction.

MALARIAL FEVER.—Five thousand four hundred and forty-two total treated, with 232 deaths, and a small death-rate of 4.26 per cent.

VENEREAL DISEASES.—Two thousand five hundred and forty cases and 66 deaths, giving a percentage of 2.59.

PULMONARY DISEASES.—One thousand seven hundred and thirty treated, with 566 deaths, giving a death-rate of 32.71 per cent. Compared with 1904, this represents an increase in total treated by 450 and fatal cases of 104.

Tubercular disease is on the increase in the State.

A report has been submitted to Government on the subject with recommendations as to the special measures considered necessary for preventing the progress of this serious disease, which, if left unchecked, will in the near future take a prominent place in adding to the mortality. The preventive measures to be adopted should be well considered and far reaching and the Government must be prepared to incur a liberal expenditure.

Cerebro-spinal fever broke out at Kampar amongst coolies employed by the French Tin Mining Company. These coolies were housed in insanitary huts, which were pulled down and burnt on the outbreak of this disease.

10.

#### SPECIAL HOSPITALS.

##### GAOL HOSPITALS.

Hospital.			Total treated.	Total deaths.	Daily average.		Percentage of deaths.
					Sick in hospital.	Prisoners in gaol.	
Central Prison	{ 1904	...	701	17	40.49	556.46	2.42
	{ 1905	...	653	21	36.59	618.99	3.21
Batu Gajah Gaol	{ 1904	...	786	44	15.58	253.30	5.59
	{ 1905	...	939	39	13.73	292.15	4.15

The two State Gaols had a higher daily average of convicts and were overcrowded during the year.

At the Central Prison the admissions to hospital and daily average of sick were smaller than in 1904, but the death-rate was higher by 0.79 per cent. The diseases that are responsible for the greatest number of admissions are:

Dysentery	...	...	...	...	...	...	76
Malarial fever	...	...	...	...	...	...	68
Diarrhoea	...	...	...	...	...	...	100
Pulmonary diseases	...	...	...	...	...	...	39

Beri-beri decreased in number and at the close of the year there was only one case under treatment.

Batu Gajah Gaol: the Senior District Surgeon represents that at this gaol the time has come for removal of the old association wards and recommends that they should be replaced by more sanitary buildings. This is necessary.

The prevailing diseases in the Kinta Gaol were malaria, dysentery, diarrhoea and beri-beri. Four convicts developed cerebro-spinal fever and all ended fatally. The special precautions taken were successful in stamping out the disease.

The Senior District Surgeon calls attention to the necessity of providing a separate hospital ward at this gaol for treatment of bowel complaint cases. This has been included in draft Estimates for 1907.

The food at both these gaols was often examined and found to be of good quality and well cooked, and judging from the fact that the majority of prisoners gained weight the food was also sufficient in quantity.

#### LEPER ASYLUMS.

11. PANGKOR LAUT.—For Malays exclusively. The number treated during the year amounted to 27, and amongst these there were three deaths. Only two cases were admitted during the year.

An opinion must not be formed of the extent of prevalence of leprosy amongst Malays in the State from the number of cases treated at this institution. Admissions were purposely restricted for fear of shortage of water supply. The scheme for increase of supply from the largest stream on the island was begun and made fair progress. A large storage reservoir is being constructed, and there is reason to believe that this with the greater catchment area that is availed of will meet the requirements of the place during the dry months of the year.

The District Surgeon, Lower Perak, reports that the lepers have now settled down and expressed themselves as satisfied. Their wants are "provided for in a generous way."



The patients have occupied their time planting vegetables and fruit trees and rearing of poultry.

PULAU JEREJAK.—At the three Perak wards attached to the Colonial Asylum 125 cases were treated against 143 the year before. The health of the institution has evidently improved, for the number of deaths fell from 43 to 20 and the rate of deaths from 30.07 to 16.00 in 1905. The accommodation for Chinese lepers proved insufficient and more wards will have to be constructed if other measures which are contemplated cannot be carried out.

#### 12. LUNATIC ASYLUM.

Year.	Treated.	Daily average.	Died.	Percentage of deaths.
1904 ... ..	275	113.40	60	21.81
1905 ... ..	270	129.99	40	14.81

The general health of the lunatics showed a marked improvement and this was probably due to the greater prominence given to outdoor work. The patients spent less time in the wards.

#### VACCINATION.

13. A total of 9,163 cases were inoculated against 6,332 the year before. One thousand one hundred and ninety-three failed to return for inspection. Out of those inspected 5,008 or 54.65 per cent. were perfect, and 714 or 7.79 per cent. were modified, 2,248 or 24.53 per cent. failed. On the whole, Saigon lymph was found to be more effective. Amongst those returned under head "Failed" are many re-vaccinations that were undertaken at points where small-pox prevailed. Failures, too, I found were due in some instances to use of lymph which was too old and had become inert.

#### 14. OUTDOOR DEPARTMENT.

##### DISPENSARIES ATTACHED TO HOSPITALS.

Year.	New cases.	Repetitions.	Total visits.
1904 ... ..	34,060	18,731	52,791
1905 ... ..	33,241	19,254	52,495

##### TRAVELLING DISPENSARIES.

Year.	New cases.	Repetition.	Total visits.
1904 ... ..	9,811	5,394	15,205
1905 ... ..	5,378	1,856	7,234

The work of travelling dispensaries in Kinta was not resumed owing to continued shortness of staff.

#### VETERINARY BRANCH.

15. SWINE FEVER prevailed in Tupai, Kamunting and Matang. From the repeated occurrence of this disease it would appear that it has become endemic in the local pig-styes. The pig-owners work against their own interests by concealing the presence of swine fever, although they continue to sustain a heavy loss yearly. The time has come for condemning all the infected styes and establishing others in new localities away from streams.

RINDERPEST.—A few cases occurred at Taiping in March, and in July it appeared at Tanjong Malim amongst cattle imported from Selangor. Prompt measures adopted prevented spread to other parts of the State.

GLANDERS.—Six cases in all were reported, four in Krian and two in Kinta.

SURRA.—For the first time this disease was met with in this State. The original seat of outbreak was in Krian. About 50 ponies were lost.

Later on surra was met with near Batu Gajah. Details of these outbreaks are given in the Acting Veterinary Surgeon's report.

#### METEOROLOGY.

16. The highest rainfall for twelve months, 175.19 inches, was recorded at Kampar. Taiping followed with 158.48 inches.

The greatest rainfall registered in 24 hours was at Kampar, 5.60 inches. At Grit 5.30 and at Tapah 5.07 was recorded.

Highest shade temperature, 96° Fah., at Ipoh and Grit. Lowest shade temperature, 60° Fah., at Grit.

#### FINANCIAL.

17. The total expenditure for the whole department as recorded at my office for 1905 was \$309,295.56 against \$297,044.37 the year before.



## STAFF.

18. I have again to represent that the efficient working of the department was impaired through shortness of staff. Advertisements in various papers failed to obtain suitable candidates. The establishment of a Medical School at Singapore for the Straits and Federated Malay States supplies a long-felt want. The School has made a satisfactory beginning and the requirements of the Medical Service will, I feel confident, be fully provided for in the future.

Though under-staffed, generally speaking, all grades of the department worked well.

The new hospital at Grit was well advanced towards completion. A hospital on a new site was commenced at Tapah to replace the old institution which has served its time and was badly situated in being too close to the town. Many new wards and other buildings were completed at the various hospitals. The Perak Medical Department has been liberally provided for by Government in the matter of buildings and in other respects. The insufficiency of staff was the only drawback, and in respect to this there are prospects of an improvement at no distant date.

M. J. WRIGHT,  
*State Surgeon.*